

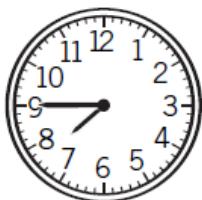
# GRADE THREE EQAO QUESTIONS: Measurement

## Overall Expectation #1:

- read, represent, compare, and order whole numbers to 1000, and use concrete materials to represent fractions and money amounts to \$10

Spring 2006

- 12** The picture of the clock below shows the time when Mary finishes her breakfast.



What time is shown on this clock?

- ☐ 7:15
- ☐ 7:45 \*
- ☐ 8:15
- ☐ 8:45

- 13** Use your ruler to measure the perimeter of each of the following shapes.



W



X




Y

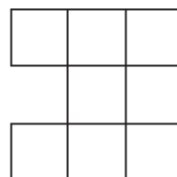


Z

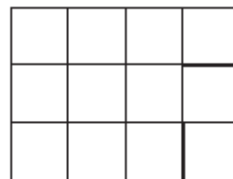
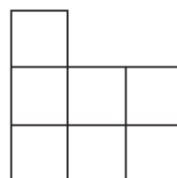
Which shape has the greatest perimeter?

- ☐ Shape W
- ☐ Shape X
- ☐ Shape Y \*
- ☐ Shape Z

- 35** In the following figures, each  represents 1 square unit. Which figure has a perimeter of 16 units and an area of 7 square units?



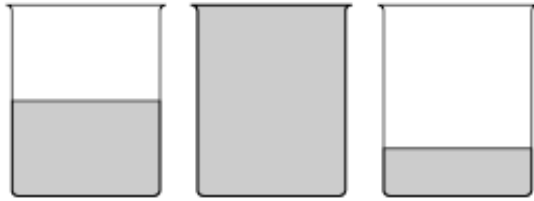
\*



# GRADE THREE EQAO QUESTIONS: Measurement

Spring 2007

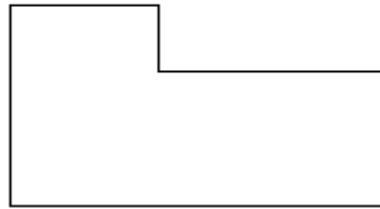
- 12** Kyle has 3 one-litre containers with some juice in each, as shown in the picture below.



Which is closest to the total amount of juice Kyle has?

- ☐ one litre
- ☐ one and three-quarter litres
- ☐ two litres
- ☐ two and a quarter litres

- 13** Use a ruler to measure the perimeter of the shape below.



Which is closest to the perimeter of the shape?

- ☐ 14 centimetres
- ☐ 15 centimetres
- ☐ 16 centimetres
- ☐ 17 centimetres

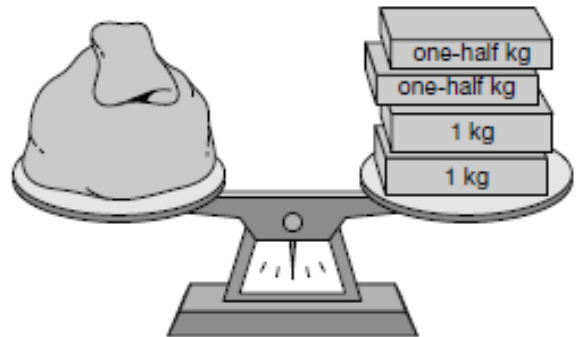
- 20** Use a ruler to measure the length of the pencil shown in the picture below.



Which of the following is closest to the length of the pencil?

- ☐ 5 m
- ☐ 6 m
- ☐ 5 cm
- ☐ 6 cm

- 33** What is the mass of the bag of coins shown in the picture below?



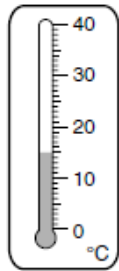
- ☐ 2 kg
- ☐ 3 kg
- ☐ 4 kg
- ☐ 5 kg

# GRADE THREE EQAO QUESTIONS: Measurement

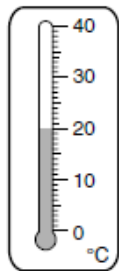
Spring 2008

**11** Which of the following thermometers shows  $25^{\circ}\text{C}$ ?

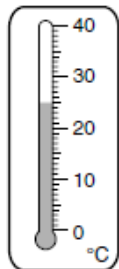
☐



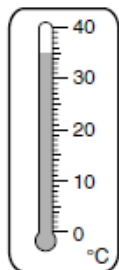
☐



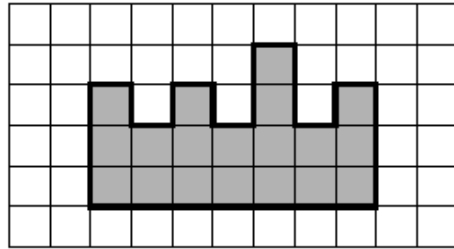
☐



☐



**12** The diagram below shows the outline of a shape.



What is the perimeter of the shape?

☐

19 units

☐

20 units

☐

25 units

☐

28 units

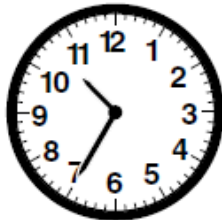
## GRADE THREE EQAO QUESTIONS: Measurement

**25** Which clock shows 7:50?

☐



☐



☐

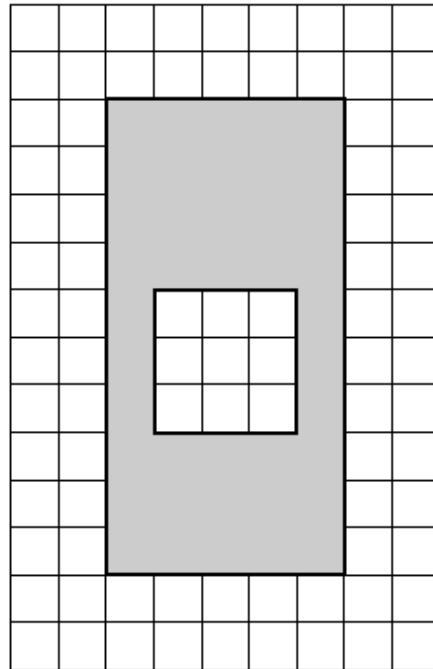



☐



**31** Carl has a piece of grey construction paper. He cuts out a square-shaped section, as shown on the grid below.

Construction Paper on a Grid



Each  represents 1 square unit.

What is the area of the remaining piece of grey construction paper?

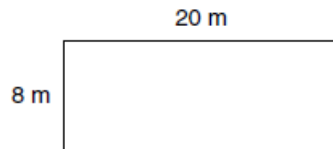
- ☐ 9 square units
- ☐ 30 square units
- ☐ 41 square units
- ☐ 50 square units

## GRADE THREE EQAO QUESTIONS: Measurement

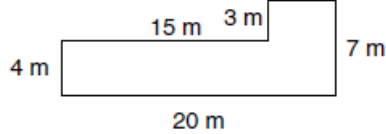
**29** Oakwood School wants to build a new kindergarten playground.

The principal has two models to choose from and wants the playground with the larger perimeter.

Playground A



Playground B



Which playground has the larger perimeter?

Show your work.

Playground \_\_\_\_\_ has the larger perimeter.

# GRADE THREE EQAO QUESTIONS: Measurement

Spring 2009

**11** Children are playing in the snow.  
Which is the most likely temperature outside?

- ☐ 32 °C
- ☐ 20 °C
- ☐ 12 °C
- ☐ 0 °C

**13** Which clock shows the same time as the digital clock?



☐



☐



☐



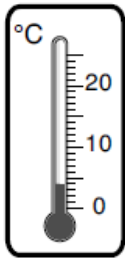
☐



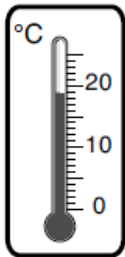
## GRADE THREE EQAO QUESTIONS: Measurement

**24** Mrs. Moore's class records the outside temperature each morning for a week. On Wednesday, they record the temperature as  $15^{\circ}\text{C}$ . On Thursday, the temperature is 4 degrees cooler. Which thermometer matches the temperature reading for Thursday?

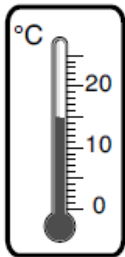
☐



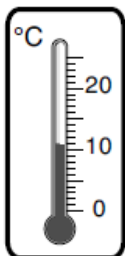
☐



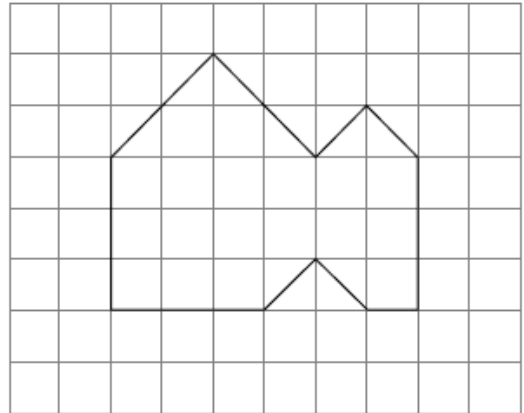
☐



☐



**31** What is the area of this shape?



☐ 18 square units

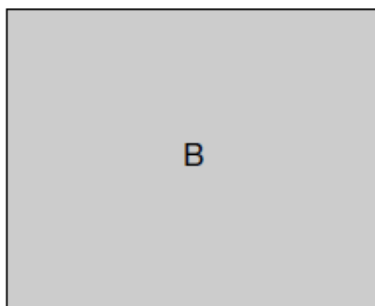
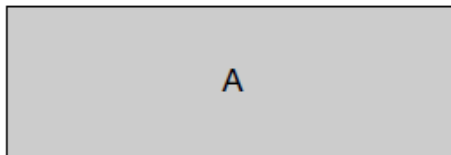
☐ 20 square units

☐ 22 square units

☐ 26 square units

## GRADE THREE EQAO QUESTIONS: Measurement

**10** Look at the rectangles below.



Which rectangle has the greater perimeter?

Justify your answer.

Rectangle \_\_\_\_\_ has the greater perimeter.

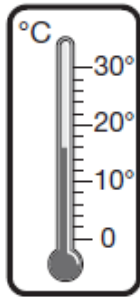


# GRADE THREE EQAO QUESTIONS: Measurement

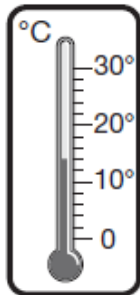
Spring 2010

**15** Which thermometer shows  $16^{\circ}\text{C}$ ?

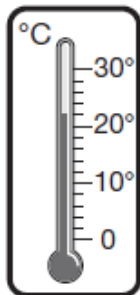
☐



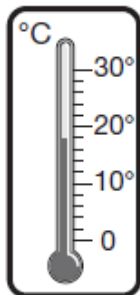
☐



☐



☐



**17** Look at the clock below.

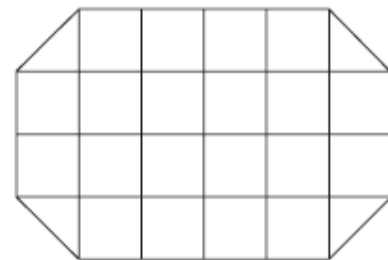



What time is shown on the clock?

- ☐ 10:15
- ☐ 3:50
- ☐ 3:10
- ☐ 2:50



**24** What is the area of this shape?

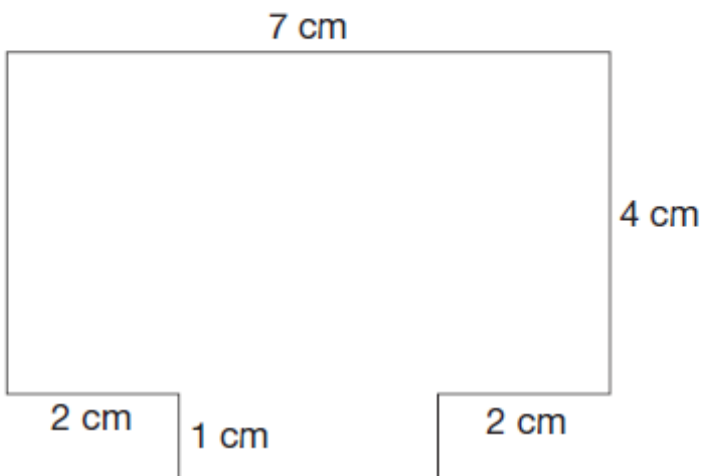


 = 1 square unit

- ☐ 24 square units
- ☐ 22 square units
- ☐ 20 square units
- ☐ 16 square units

## GRADE THREE EQAO QUESTIONS: Measurement

**30** Look at the shape below.



What is the perimeter of the shape?

- ☐ 16 cm
- ☐ 21 cm
- ☐ 23 cm
- ☐ 24 cm

# GRADE THREE EQAO QUESTIONS: Measurement

## Overall Expectation #2:

- demonstrate an understanding of magnitude by counting forward and backwards by various numbers and from various starting points

### Spring 2006

**1** Which of the following could be the temperature on a warm, sunny day?

- ☐  $-23^{\circ}\text{C}$
- ☐  $5^{\circ}\text{C}$
- ☐  $25^{\circ}\text{C}^*$
- ☐  $100^{\circ}\text{C}$

**23** David must wait 1 year before he is old enough to join the baseball team.

Which of the following is closest to the total number of days in 1 year?

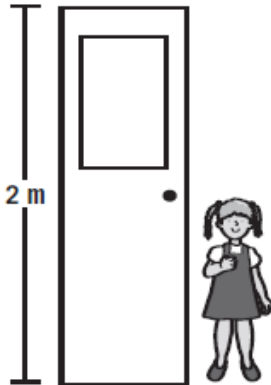
- ☐ 356
- ☐ 360
- ☐ 365<sup>\*</sup>
- ☐ 376

**34** Which set of measurements is listed in order from smallest to largest?

- ☐ 7 cm, 20 cm, 1 m, 3 m<sup>\*</sup>
- ☐ 20 cm, 7 cm, 3 m, 1 m
- ☐ 3 m, 1 m, 20 cm, 7 cm
- ☐ 1 m, 3 m, 7 cm, 20 cm

## GRADE THREE EQAO QUESTIONS: Measurement

- 28 The picture shows Tarah standing next to her front door.



Tarah's older brother, Rhaj, is 50 cm taller than Tarah.

About how tall is Rhaj?

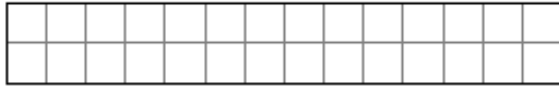
Explain your thinking.

Rhaj is about \_\_\_\_\_ tall.

# GRADE THREE EQAO QUESTIONS: Measurement

Spring 2007

- 16** The diagram below represents a new tabletop in the lunchroom. Devan determines that the area of the tabletop is 7 square units.



Which is the square unit Devan uses to measure the area of this tabletop?

- ☐
- ☐
- ☐
- ☐

- 32** John's baby sister is 30 days old. Which of the following is closest to her age in weeks?

- ☐ 4
- ☐ 7
- ☐ 30
- ☐ 52

- 17** Which unit of measure is the most appropriate to use to record the distance between the cities of Toronto and Ottawa?

- ☐ kilometre
- ☐ litre
- ☐ kilogram
- ☐ centimetre

- 21** William records the lengths of four objects in the table below.

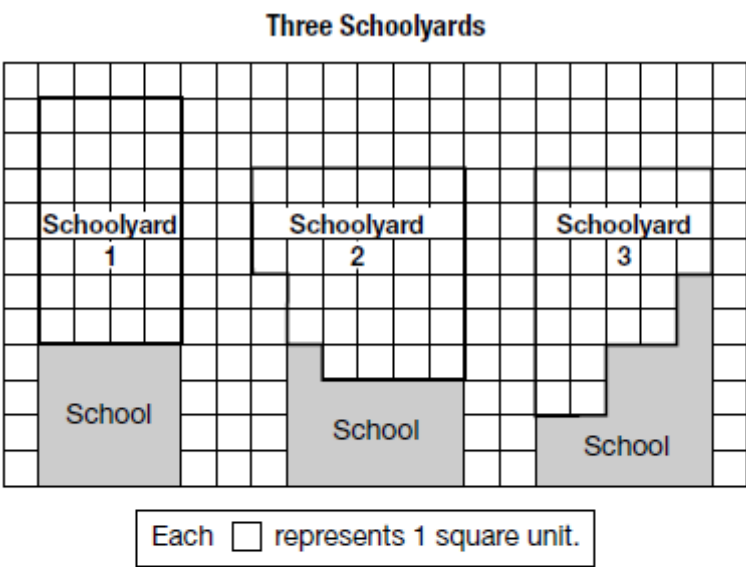
Object	Length
Box	2 m
Rug	150 cm
Bulletin board	3 m
Bathroom floor	400 cm

Which shows the lengths from the table listed in order from greatest to least?

- ☐ 3 m, 2 m, 400 cm, 150 cm
- ☐ 150 cm, 2 m, 3 m, 400 cm
- ☐ 400 cm, 150 cm, 3 m, 2 m
- ☐ 400 cm, 3 m, 2 m, 150 cm

**GRADE THREE EQAO QUESTIONS:** Measurement

**10** The diagram below shows three schoolyards.



Which schoolyard has the greatest area?

Explain your answer.

Schoolyard \_\_\_\_\_ has the greatest area.

# GRADE THREE EQAO QUESTIONS: Measurement

Spring 2008

**16** Which is the best unit to use to measure the perimeter of the school building?

- ☐ m
- ☐ cm
- ☐ kg
- ☐ km

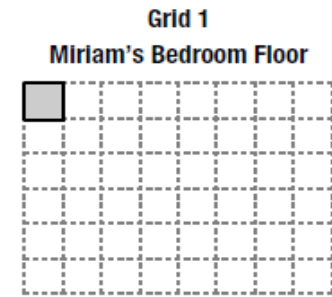
**17** Which set of measurements is listed in order from least to greatest?


- ☐ 3 cm, 1 km, 98 cm
- ☐ 5 cm, 100 cm, 2 m
- ☐ 1 km, 2 m, 15 cm
- ☐ 1 m, 3 m, 5 cm

**36** Jaelend will leave for vacation in exactly one day. How many hours is it until he leaves?

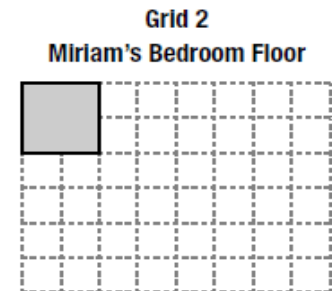
- ☐ 1
- ☐ 7
- ☐ 12
- ☐ 24


**24** Each of the grids below represents Miriam's bedroom floor.



 represents 1 square tile.

If she uses the shaded square tile shown in Grid 1, Miriam will need 48 square tiles to cover her bedroom floor.



 represents 1 square tile.

If she uses the shaded square tile shown in Grid 2, what will be the total number of square tiles Miriam needs to cover her bedroom floor?

- ☐ 12
- ☐ 24
- ☐ 36
- ☐ 48

# GRADE THREE EQAO QUESTIONS: Measurement

Spring 2009

**16** How many days are in 4 weeks?




- ☐ 7
- ☐ 14
- ☐ 28
- ☐ 30

**25** Which of the following lists the measurements in order from longest to shortest?













- ☐ 90 cm; 1 m 34 cm; 223 cm
- ☐ 223 cm; 1 m 34 cm; 90 cm
- ☐ 223 cm; 90 cm; 1 m 34 cm
- ☐ 1 m 34 cm; 90 cm; 223 cm

**17** Look at the table below.

Mass of Objects

Object	Mass
 Book	one kg
 Bag of marbles	one-quarter kg
 Bananas	one-half kg

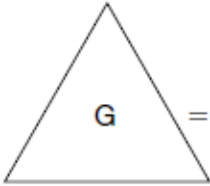
Which of the following shows the objects in order from lightest to heaviest?

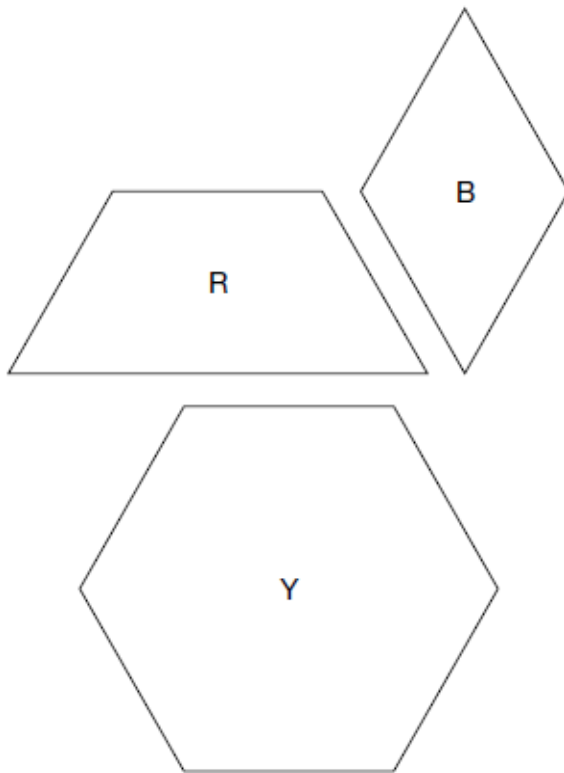
- ☐   
- ☐   
- ☐   
- ☐   



## GRADE THREE EQAO QUESTIONS: Measurement

- 35** Using the green triangle, find the total area of these pattern blocks.

Legend	
R = Red B = Blue Y = Yellow	 = 1 unit



What is the total area of all 3 pattern blocks?

- ☐ 9 units
- ☐ 10 units
- ☐ 11 units
- ☐ 12 units

# GRADE THREE EQAO QUESTIONS: Measurement

Spring 2010

**10** Which list shows the lengths from shortest to longest?

- ☐ 1 m 50 cm; 140 cm; 1 m
- ☐ 1 m; 1 m 50 cm; 140 cm
- ☐ 140 cm; 1 m 50 cm; 1 m
- ☐ 1 m; 140 cm; 1 m 50 cm

**23** How many minutes are in 1 hour?

- ☐ 7
- ☐ 24
- ☐ 30
- ☐ 60

**34** Luke's baby sister is 36 days old. About how many weeks old is Luke's sister?

- ☐ 1
- ☐ 5
- ☐ 6
- ☐ 7

**16** Jeremy measures the lengths of some objects and records them in the table below.

**Objects Measured**

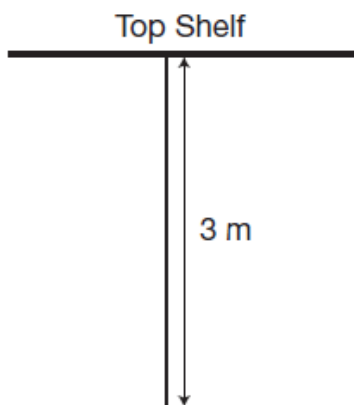
Object	Length
Eraser	4
Pencil	15
Desk	60

Which unit does Jeremy use to measure the objects?

- ☐ centimetre
- ☐ kilometre
- ☐ metre
- ☐ litre

## GRADE THREE EQAO QUESTIONS: Measurement

- 8 Lorenzo's top shelf is 3 m high.



He can reach a height of 180 cm.

He stands on a box that is 95 cm tall.

Can Lorenzo now reach his top shelf?

Circle one:    Yes    No

Justify your answer.